

PATENT

Practitioner's Docket No. IB-1695

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

International application of: Groves, John T.; Mahal, Lara K. and Bertozzi, Carolyn R.

Application No.: 10/076,727

Group No.: 1645

Filed: February 13, 2002

Examiner: Unassigned

For: Modulation of cellular adhesion with lipid membrane micro-arrays

Assistant Commissioner for Patents  
Washington, D.C. 20231

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Date: 5/10/2002

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Application Number	10/076,727
Filing Date	February 13, 2002
First Named Inventor	John T. Groves
Group Art Unit	1645
Examiner Name	Unassigned
Attorney Docket Number	IB-1695

Total Number of Pages in This Submission

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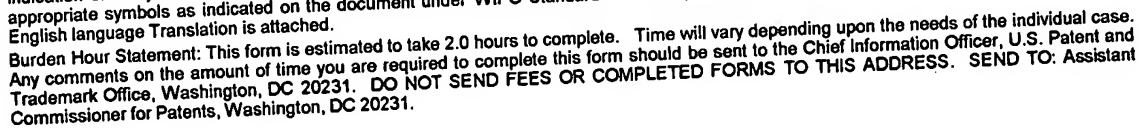
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Sheet 1 of 5

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Application Number 10/076,727  
 Filing Date 02/13/2002  
 First Named Inventor John T. Groves  
 Group Art Unit 1645  
 Examiner Name Unassigned  
 Attorney Docket Number IB-1695

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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	✓	KLEINFELD, D., K.H. KAHLER AND P.E. HOCKBERGER, "Controlled outgrowth of dissociated neurons on patterned substrates," J. Neurosci, Vol. 8 (No. 11), p. 4098-4120, (1988).	
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	✓	CHEN, C., ET AL., "Micropatterned surfaces for control of cell shape, position, and function," Biotechnol. Prog., Vol. 14 (No. 3), p. 356-363, (1998).	

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	✓	ROBERTS, C., ET AL., "Using mixed self-assembled monolayers presenting RGD and (EG)30H groups . . . surfaces," J. Am Chem. Soc., Vol. 120 (No. 26), p. 6548-6555, (1998).	
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	✓	MCCONNELL, H.M., T.H. WATTS, R.M. WEIS, AND A.A. BIRAN, "Supported planar membranes in studies of cell-cell recognition in the immune system," Biochim. Biophys. Acta, Vol. 864, p. 95-106, (1986).	

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Group Art Unit	1645
Examiner Name	Unassigned
Attorney Docket Number	IB-1695

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	✓	ALON, R., D.A. HAMMER AND T.A. SPRINGER, "Lifetime of the P-selectin-carbohydrate bond and its response to tensile force in hydrodynamic flow," Nature, Vol. 374, p. 539-542, (1995).	
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	✓	GROVES, J.T. AND S.G. BOXER, "Electric field-induced concentration gradients in planar supported bilayers," Biophys. J., Vol. 69, p. 1972-1975, (1995).	
	✓	GROVES, J.T., C. WUELFING, AND S.G. BOXER, "Electrical manipulation of glycan-phosphatidyl inositol-tethered proteins in planar supported bilayers," Biophys. J., Vol. 71, p. 2716-2723, (1996).	
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	✓	CREMER, P.S., J.T. GROVES, L.A. KUNG, AND S.G. BOXER, "Writing and erasing barriers to lateral mobility into fluid phospholipid bilayers," <i>Langmuir</i> , Vol. 15 (No. 11), p. 3893-3896, (1999).	
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	✓	WALI, R.K., S. JAFFE, D. KUMAR, AND V.K. KARLA, "Alterations in organization of phospholipids in erythrocytes as factor in adherence to endothelial cells in diabetes mellitus," <i>Diabetes</i> , Vol. 37 (No. 1), p. 104-111, (1988).	
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	✓	PUU, G, I. GUSTAFSON, E. ARTURSSON & P.-A. OHLSSON, "Retained activities of some membrane proteins in stable lipid bilayers on a solid support," <i>Biosensors &amp; Bioelectronics</i> , Vol. 10 (No. 5), p. 463-476, (1995).	
	✓	KAM, L. AND S.G. BOXER, "Cell adhesion to protein-micropatterned-supported lipid bilayer membranes," <i>J. Biomed. Mater. Res.</i> , Vol. 55 (No. 4), p. 487-495, (2001).	
	✓	DORI, Y., H. BIANCO-PELED, S.K. SATIJA, G.B. FIELDS, J.B. MCCARTHY, AND M. TIRRELL, "Ligand accessibility as means to control cell response to bioactive bilayer membranes," <i>J. Biomed. Mater. Res.</i> , Vol. 50, p. 75-81, (2000).	
	✓	VAN OUDENAARDEN, A. AND S.G. BOXER, "Brownian Ratchets: Molecular Separations in Lipid Bilayers Supported on Patterned Arrays," <i>Science</i> , Vol. 285, p. 1046-1048, (1999).	

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	✓	STEIN, T. AND G. GERISCH, "Oriented Binding of a Lipid-Anchored Cell Adhesion Protein . . . and Photoactive Crosslinking," Anal. Biochem., Vol. 237, p. 252-259, (1996).	
	✓	RUOSLAHTI, E. AND B. OBRINK, "Common Principles in Cell Adhesion," Exp. Cell Res., Vol. 227, p. 1-11, (1996).	
	✓	CROSSIN, K.L. AND L.A. KRUSHEL, "Cellular Signaling by Neural Cell Adhesion Molecules: the Immunoglobulin Superfamily," Developmental Dynamics, Vol. 218, p. 260-279, (2000).	
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	✓	MCFARLAND, C.D., C.H. THOMAS, C. DEFILIPPIS, J.G. STEELE, AND K.E. HEALY, "Protein adsorption and cell attachment to patterned surfaces," J. Biomed. Mater. Res., Vol. 49, p. 200-210, (2000).	
	✓	DU, H., P. CHANDAROY AND S.W. HUI, "Grafted poly-(ethylene glycol) on lipid surfaces inhibits protein adsorption and cell adhesion," Biochim. Biophys. Acta, Vol. 132 ( No. 2), p. 236-248, (1997).	
	✓	GROVES, J.T., L.K. MAHAL AND C.R. BERTOZZI, "Control of cell adhesion and growth with membrane micro-arrays," Biophys. J. (Annual Meeting Abstracts), 80 (1), p. 144f, (2001).	
	✓	MASSIA, S.P. AND J.A. HUBBELL, "Covalent Surface Immobilization of Arg-Gly-Asp- and Tyr-Ile-Gly-Ser-Arg-Containing Peptides to Obtain Well-Defined Cell-Adhesive Substrates," Anal. Biochem., Vol. 187, p. 292-301, (1990).	

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